

SUMMARY SHEET

Total Maximum Daily Load (TMDL) Development for the Big Wateree Watershed

1. 303(d) Listed Waterbody Information

State	South Carolina
County	Fairfield
Major River Basin	Catawba-Wateree
Watershed	Big Wateree Creek
Constituent(s) Causing Impairments	Fecal Coliform Bacteria
Designated Uses	Recreational
HUC	03050104-020-010

Impaired Stations (2002 Section 303(d) List):

Station	Station Location
CW-072	Big Wateree Creek at US-21

Applicable fecal coliform bacteria water quality criteria for recreation (most stringent):
The concentration of the fecal coliform bacteria group shall not exceed 200 counts per 100 mL as a geometric mean based on five consecutive samples during any 30 day period; nor shall more than 10 percent of the total samples during any 30 day period exceed 400 counts per 100 mL.

2. TMDL Development

Analysis/Modeling:

A load-duration curve was used to develop the Big Wateree Creek fecal coliform bacteria TMDL. The curve was based on flow from a nearby, gauged watershed and represented the historical range of hydrologic conditions.

Critical Conditions:

The TMDL represents an average of all hydrologic conditions and seasons.

Seasonal Variation:

All seasons are protected by the TMDL because the analysis included 49 years of hydrologic data of all seasons.

3. Fecal Coliform Bacteria Allocations by Impaired Station

Impaired Station	WLA ^a (cfu/day)	LA (cfu/day)	MOS ^b (cfu/day)	TMDL (cfu/day)	Percent Reduction ^c
CW-072	7.48E+08	4.14E+11	2.2E+10	4.37E+11	80 %

Notes:

^aAll future permitted discharges shall meet the water quality criterion for fecal coliform bacteria of 200 cfu/100mL (expressed as a monthly average).

^bAn explicit and implicit margin of safety (MOS) was applied.

^cThe percent reduction for fecal coliform bacteria loads is based on the existing and TMDL conditions.

4. Public Notice Date:

5. Submittal Date:

6. Establishment Date:

7. Endangered Species (yes or blank):

8. EPA Lead on TMDL (EPA or blank):

9. TMDL Considers Point Source, Nonpoint Source, or Both: Both

10. NPDES Discharges of Fecal Coliform Bacteria: One